#### DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 69.21

# WELDING WITNESS REPORT

Resident Engineer: Pursell, Gary **Report No:** WWR-000090 Address: 333 Burma Road **Date Inspected:** 23-Jan-2007

City: Oakland, CA 94607

**Project Name:** SAS Superstructure **OSM Arrival Time:** 800 **OSM Departure Time:** 1500 Prime Contractor: American Bridge/Fluor Enterprises, a JV

**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

Witness:	Procee	dure Qualification Record		Welder Qualification		Fracture Critical	
	Weldi	ng	NDT	Mechnical T	esting, describe:		
Index Lot #: B41-005-07a			Witness Lot #: B41-028-07				
<b>Bridge No:</b> 34-0006			<b>Component:</b> Bid 52, 55 Tower and Girder				
Welder: Xia Yong Zhong			<b>ID</b> #:	N/A			
Joint Descri	ption:	B-U2a-GF	ceramic	N/A	WPS ID #:	PWPS-B-T-2231T	N/A
<b>Base Metal:</b>		A709-50-2	2	N/A	PQR ID#:	HP2006116	N/A
Thickness:		60mm		N/A	<b>Process:</b>	FCAW	N/A
Electrode Spec/Class: A5.20/E71T-1			N/A	<b>Positions:</b>	1G	N/A	
<b>Backing Ma</b>	terial:	Ceramic		N/A	CWI:	Liu Liu	N/A
Average Am	ıps:	284.8		N/A	<b>AWS Code:</b>	D1.5-2002	N/A
Average Vol	lts:	28		N/A	<b>Applicable Sec:</b>	5.13	N/A
Travel Spee	d:	190.1mm/	min	N/A	<b>Heat Input:</b>	2.52kj/mm	N/A
Preheat:		218C		N/A			

#### **Summary of Items Observed:**

The Caltrans Quality Assurance (QA) Inspector was present as requested to witness the retest of Charpy Vee Notch (CVN) mechanical testing of a Procedure Qualification (PQR) test plate using Flux Core Arc Welding (FCAW), using E71T-1 1.4mm electrode, in the 1G (flat) position, with a ceramic backing bar. The tests were performed per the AWS D1.5, Section 5.18 requirements. The welding appeared to comply with the contract documents

## **Summary of Conversations:**

See Task Leader journal for this date.

**Observed welding, testing or results:** 

is in general conformance with the contract requirements. is not in conformance with the contract requirements.

### **Comments**

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Mazen Wahbeh, (818) 292-0659, who represents the Office of Structural Materials for your project.

# WELDING WITNESS REPORT

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Inspected By:	Wright,Mark	Quality Assurance Inspector
Reviewed By:	McClary, David	QA Reviewer